INTERNATIONAL SEARCH REPORT

onal Application No PCT/IB2004/001738

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G21C13/024 G21C5/10 B65D90/12

According to international Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched} & \mbox{(classification system followed by classification symbols)} \\ \mbox{IPC} & 7 & \mbox{G21C} & \mbox{B65D} \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

INTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
GB 889 758 A (ENGLISH ELECTRIC CO LTD; BABCOCK & WILCOX LTD) 21 February 1962 (1962-02-21)	1-3,12, 23,28,29
page 1, lines 11-75	4-11,13, 20-22, 24,25
GB 808 739 A (ASS ELECT IND) 11 February 1959 (1959-02-11)	4-11
page 1, lines 10-31 page 2, lines 51-77 page 2, line 126 - page 3, line 11	1-3
US 3 986 581 A (CALDWELL DONALD B) 19 October 1976 (1976-10-19) column 2, line 59 - column 3, line 21; figures 1-3	1,28
-/	
	GB 889 758 A (ENGLISH ELECTRIC CO LTD; BABCOCK & WILCOX LTD) 21 February 1962 (1962-02-21) page 1, lines 11-75 GB 808 739 A (ASS ELECT IND) 11 February 1959 (1959-02-11) page 2, lines 10-31 page 2, lines 51-77 page 2, line 126 - page 3, line 11 US 3 986 581 A (CALDWELL DONALD B) 19 October 1976 (1976-10-19) column 2, line 59 - column 3, line 21;

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the International filling date t.* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the International filling date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the International search 2 March 2005	Date of mailing of the international search report 17/03/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Jandl, F

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/001738

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
,	
A WO 82/04092 A (TOYAMA JUN) 25 November 1982 (1982-11-25)	1–3
Y abstract	4-11
US 4 008 757 A (WEATHERFORD, JR. ET AL) 22 February 1977 (1977-02-22)	1,28
Y columns 3-5 A figure 1	4-11
A Tigure 1	12,13, 17,20,21
Y US 4 379 119 A (FUJIMOTO ET AL) 5 April 1983 (1983-04-05) columns 2,3	13,20-22
A GB 1 080 405 A (SOCIETE ANGLO-BELGE	1,2
VULCAIN) 23 August 1967 (1967-08-23) Y page 2, lines 36-68; figures 1-5	24,25

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IB2004/001738

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 889758	A	21-02-1962	DE FR	1086355 B 1214596 A	04-08-1960 11-04-1960
GB 808739	Α	11-02-1959	NONE		
US 3986581	A	19-10-1976	CA	1049216 A1	27-02-1979
			JP	1082423 C	29-01-1982
			JP	52100704 A	24-08-1977
			JP	56024135 B	04-06-1981
			MX	145628 A	17-03-1982
			SU 	822765 A3	15-04-1981
WO 8204092	Α	25-11-1982	JP	57189096 A	20-11-1982
			JP	57195457 A	01-12-1982
			AU	8396782 A	07-12-1982 25-11-1982
			WO	8204092 A1	25-11-1962
US 4008757	Α	22-02-1977	AR	216057 A1	30-11-1979
			AT AT	342092 B 568376 A	10-03-1978 15-07-1977
			AU	1589376 A	28-07-1977
			BE	845064 A1	01-12-1976
			BR	7605165 A	02-08-1977
			CA	1029705 A1	18-04-1978
			CH	611996 A5	29-06-1979
			DE	2638181 A1	31-03-1977
			ES	450620 A1	01-08-1977
			FI	762145 A ,	
1			FR	2324977 A1	15-04-1977
			GB	1511440 A	17-05-1978
			IL	49982 A	30-12-1977
			IT JP	1064701 B 959956 C	25-02-1985 28-06-1979
			JP	52039851 A	28-03-1977
			JP	53042898 B	15-11-1978
			MX	142984 A	30-01-1981
			NL	7607674 A	24-03-1977
			NO	762343 A ,1	3, 23-03-1977
			PH	14850 A	06-01-1982
			SE	426094 B	06-12-1982
			SE	7608513 A	23-03-1977
			YU	177576 A1	25-02-1982
			ZA	7604081 A	22-02-1978
US 4379119	Α	05-04-1983	JP	1392409 C	23-07-1987
			JP	56073387 A	18-06-1981
			JP 	61059469 B	16-12-1986
GB 1080405	Α	23-08-1967	BE	668161 A	11-02-1966
			DE	1514535 A1	04-09-1969
			FR	1445878 A	15-07-1966
			LU	46789 A1	18-02-1966



International application No. PCT/IB2004/001738

This International Search Report has not been established in respect of certain deline under Article 17(2)(a) for the following reasons: 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: 2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: see additional sheet 1. A all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were smally paid by the applicant. Coreaquently, this International Search Report is nestricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest.	Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
because they relate to subject matter not required to be searched by this Authority, namely: 2. Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically. 3. Claims Nos.: because they are dependent claims and are not directed in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This international Searching Authority found multiple inventions in this international application, as follows: see additional sheet 1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were timely paid by the applicant, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest.	This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: 3. Claims Nos.:	
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: 3. Claims Nos.:	
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This international Searching Authority found multiple inventions in this international application, as follows: see additional sheet 1. X As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: The additional search fees were accompanied by the applicant's protest.	because they relate to parts of the International Application that do not comply with the prescribed requirements to such
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This international Searching Authority found multiple inventions in this international application, as follows: see additional sheet 1. X As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: The additional search fees were accompanied by the applicant's protest.	· ·
This international Searching Authority found multiple inventions in this international application, as follows: see additional sheet 1. X As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: The additional search fees were accompanied by the applicant's protest.	3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
see additional sheet 1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest.	Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest	This International Searching Authority found multiple inventions in this international application, as follows:
searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest.	see additional sheet
of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest.	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest.	2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest.	3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No protest accompanied the payment of additional search fees.	Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11,28, 29

A support arrangement and a method therefore which includes a vessel to be supported by a single vertical support and a lateral support means at an elevation above that of the vertical support. The vessel being a core barrel of a high temperature gas cooled nuclear reactor which includes a reactor pressure vessel the vertical support including upper and lower support members connected to the core barrel and the reactor vessel respectively. The support members having curved surfaces; an intermediate

member defining the contact surface. The specific shape of the surfaces.

2. claims: 12-22

A lateral support means comprising inner and outer lateral support members, a roller sandwiched between inner and outer member, a resiliently deformable support with adjustable deformable guide beams and support posts. A lower lateral support comprising elastically deformable elements.

3. claims: 23-27

Auxiliary support mean for supporting the core barrel when subjected to exceptional loads comprising a lower support ring; slots and protrusions provided in other members to secure the support ring.